SEQUENCE LISTING

```
<110> GENFIT SA
<120> Method for identifying substances capable of modulating adipocyte
differentiation
<130> B0097WO
<140>
<141>
<160> 4
<170> PatentIn Ver. 2.1
<210> 1
<211> 1999
<212> DNA
<213> Homo sapiens
<400> 1
gaattcatgc tgcctgtgga gaagggcttc ctatgtgaag aaaaccctct ctagaagcac 60
tgggactggg gaggaattag cgggagcagc aggtggctca ggctccctct cccttcgctg 120
cctaagaagc ttccatcccc tccatgaccc aagccctcta acatgataga tctcctctac 180
ttgagatctg ttattactca tgggacagtt gctgctctga agcgaaatac tggctgtttt 240
ttgtttgttt gttttggaga cagagtetea etetateece agggeggagt geaatggega 300
teteggetea etgeaacete eaceteeegg gttetagega tteteetgee teageeteet 360
gactagetgg gattacagge acceaceace acateegget aatttttgta tttttagtag 420
agacgtggtt tcaccgtgtt ggtcaggctg gtctcaaact cctgacctca ggtgatcaac 480
ccacctcagc ctcacaaagt gctgggatta caggcatgag ccaaagcacc cggcaatgct 540
ggctgtttct aacccctgtt cagtatttca cttgtacatc tacccacctt cccattcggg 600
gtgggcagat gaaactagca atggacgtct gaccttgggt cggtcacttc tcctaagctt 660
cctgttcccc actagtaaaa agagggaggc ttaagatgat ctacatgttc ccctctgagt 720
agtaatcttc tgtggaattc atattttatc ctccagcacc gaggggcagg ggtgtcactc 780
tgcccccacc ccctgcctca cctcttcccc attactttag gacctcaaag cactttcact 840
attagttccc ctctgttgtc ctttttattt cccagacaaa gggaaatgac tcaccccaaa 900
gtcaactgga gtgggtggaa tggtgtcaat acaagcaaac agggagtccc tacagacatc 960
cctacctctg tgggaactcc ttcccctgga ggtgttctcc ctaaggcgag tagaagggaa 1020
agggggtcac atttcctttc cttctctgga ctttgccctg aagcagaggg cagcctaagc 1080
tectgaetee agggaaatet eeeteeeegg ettetetete teeeggteae eagtaacete 1140
aggacgaggt cagtcctgca atcacgtgaa gccctcacgt ttgcaaggtt tgcagaaagg 1200
gcctcttagc tttgatctcc cagacagcaa acaagcttgc cagtccctcc ccagaaattc 1260
acatgcccct gccatacagg ctttctaaac acgccaccct gactcttcag cgcacccac 1320
cccaccccac tctcagctcc tcccaggtcc cggcaagcgc tttgccaggc agaaagggga 1380
aaggcacgca gtccgcccac tttgtcggtg gactacaaat cccgacagtc ttgtcgttgc 1440
gcaggcgcgc aagagctcaa cgtgccggct gttggaaaag tgtgtcactg gggcaccgag 1500
gegeteeetg ggateaeatg gtacetgete eagtgeegeg tgeggeeegg gaaceetggg 1560
ctgctggcgc ctgcgcagag ccctctgtcc cagggaaagg ctcgggcaaa aggcggctga 1620
gattggcaga gtgaaatatt actgccgagg gaacgtagca gggcacacgt ctcgcctctt 1680
tgcgactcgg tgccccgttt ctccccatca cctacttact tcctggttgc aacctctctt 1740
cctctgggac ttttgcaccg ggagctccag attcgctacc ccgcagcgct gcggagccgg 1800
caggcagagg caccccgtac actgcagaga cccgaccctc cttgctacct tctagccaga 1860
actactgcag gctgattccc cctacacact ctctctgctc ttcccatgca aagcagaact 1920
ccgttgcctc aacgtccaac ccttctgcag ggctgcagtc cggccacccc aagaccttgc 1980
tgcagggtgc ttcggatcc
                                                                  1999
```

<212	> 20 > DN	IA	.cial	. seç	_{[uenc}	:e										
<220 <223	0> 3> Description of the artificial sequence: Rev-DR2															
<400> 2 aaaagtgtgt cactggggca														20		
<211 <212	<210> 3 <211> 1845 <212> DNA <213> Homo sapiens															
<221 <222 <223	<220> <221> CDS <222> (1)(1845) <223> REV ERB ALPHA															
	acg			gac Asp 5												48
				ggc Gly												96
	_	_		tcc Ser												144
				cca Pro												192
				Gly ggg												240
				tct Ser 85												288
	_			GJÀ āāā	_				_	_	-	_				336
			_	aag Lys	_		_									384

												ggc Gly				432
												cgt Arg				480
												gag Glu				528
												cgc Arg				576
												ttt Phe 205				624
		_		_	_		_		_		_	cag Gln	_	_	_	672
												ctg Leu				720
												tcg Ser				768
												ttt Phe				816
								Pro				gtg Val 285				864
		_		_		_		_				acc Thr		_		912
												aac Asn				960
												aat Asn				1008
												cag Gln				1056
gag	gcc	cta	aat	ggt	ctg	cgc	cag	gct	ccc	tcc	tcc	tac	cct	ccc	acc	1104

Glu Ala Leu Asn Gly Leu Arg Gln Ala Pro Ser Ser Tyr Pro Pro Thr 100 ct cct ggc cct gca cac cac agc tgc cac cag tcc aac agc aac 1152 ct ggc cac cgt cta tgc cca cac cac gtg tat gca gcc cac gca cac aga ggc aag 1170 pro Pro Gly Pro Ala His His Ser Cys His Gln Ser Asn Ser Asn 1170 pro Pro Gly Pro Ala His His Ser Cys His Gln Ser Asn Ser Asn 1170 pro Pro Gly Pro Ala His His Ser Cys His Gln Ser Asn Ser Asn 1170 pro Pro Gly Pro Ala His His Ser Cys His Gln Ser Asn Ser Asn 1170 pro Pro Gly Pro Ala His His Ser Cys His Gln Ser Asn Ser Asn 1170 pro Pro Gly Pro Ala His Val Tyr Ala Ala Pro Glu Gly Lys 1170 pro Ala Asn Ser Pro Arg Gln Gly Asn Ser Lys Asn Val Leu Leu 1170 pro Ala Asn Ser Pro Arg Gln Gly Asn Ser Lys Asn Val Leu Leu 1170 pro Ala Asn Ser Pro Arg Gln Gly Asn Ser Lys Asn Val Leu Leu 1170 pro Ala Asn Ser Pro Arg Gln Gly Asn Ser Gly Arg Thr Val 1170 pro Ala Cys Pro Met Asn Met Tyr Pro His Gly Arg Ser Gly Arg Thr Val 1170 pro Ala Cys Pro Met Asn Met Tyr Pro His Gly Arg Ser Gly Arg Thr Val 1170 pro Ala Cys Pro Met Asn Met Tyr Pro His Gly Arg Ser Gly Arg Thr Val 1171 pro Glu Asp Phe Ser Met Ser Phe Thr Pro Ala Val Arg 1171 pro Glu Asp Phe Ser Met Ser Phe Thr Pro Ala Val Arg 1172 pro Gly Phe Arg Asp Leu Ser 1172 pro Gly Phe Arg Asp Leu Ser 1173 pro Gly Phe Arg Asp Leu Ser 1174 pro Gly Phe Arg Asp Leu Ser 1175 pro Gly Phe Arg Asp Leu Ser 1175 pro Gly Phe Arg Asp Leu Ser 1176 pro Gly Phe Arg Asp Leu Ser 1177 pro Gly Phe Arg Asp Leu Ser 1177 pro Gly Phe Arg Asp Leu Ser 1178 pro Gly Phe Arg Asp Leu Ser 1179 pro Gly Phe Arg Asp Leu Ser 1179 pro Gly Phe Arg Asp Leu Ser 1170 pro Gly Phe Arg Asp Gly Ctt gg g			•				_										
Trp Pro Pro Gly Pro Ala His His Ser Cys His Gln Ser Asn Ser Asn 370 370 375 375 380 380 380 380 380 380 380 380 380 380	Glu	Ala		Asn	Gly	Leu	Arg		Ala	Pro	Ser	Ser		Pro	Pro	Thr	
Gly His Arg Leu Cys Pro Thr His Val Tyr Ala Ala Pro Glu Gly Lys 385 and 200 ccc cgg cag ggg caac tca aag aat gtt ctg ctg Ala Pro Ala Asn Ser Pro Arg Gln Gly Asn Ser Lys Asn Val Leu Leu Leu 405 and 4		Pro				_	His		-	-		Gln					1152
Ala Pro Ala Asn Ser Pro Arg Gln Gly Asn Ser Lys Asn Val Leu Leu 415 gca tgt cct atg aac atg tac ccg cat gga cgc agt ggg cga acg gtg 42 Ala Cys Pro Met Asn Met Tyr Pro His Gly Arg Ser Gly Arg Thr Val 420 cag gag atc tgg gag gat ttc tcc atg agc ttc acg ccc gct gtg cgg Gl Arg Gln Glu Tle Trp Glu Asp Phe Ser Met Ser Phe Thr Pro Ala Val Arg 440 gag gtg gta gag ttt gcc aaa cac atc ccg ggc ttc ggg acc ctt tct Glu Val Val Glu Phe Ala Lys His Tle Pro Gly Phe Arg Asp Leu Ser 450 cag cat gac caa gtc acc ctg ctt aag gct ggc acc ttt gag gtg ctg Gln Wal Val Glu Phe Ala Lys His Tle Pro Gly Phe Arg Asp Leu Ser 470 cag cat gac caa gtc acc ctg ctt aag gct ggc acc ttt gag gtg ctg Gln Wal Leu 470 atg gtg cgc ttt gct tg ttc aac gtg aag gac cag acc ag gtg atg atg gtg ctg Gln His Asp Gln Val Thr Leu Leu Lys Ala Gly Thr Phe Glu Val Leu 480 atg gtg cgc ttt gct tg ttc aac gtg aag gac cag acc gtg atg 480 met Val Arg Phe Ala Ser Leu Phe Asn Val Lys Asp Gln Thr Val Met 485 ttc cta agc cgc acc acc tac agc ctg cag gag ctt ggt gcc atg ggc phe Leu Ser Arg Thr Thr Tyr Ser Leu Gln Glu Leu Gly Ala Met Gly 510 stg gga gac ctg ctc agt gcc atg ttc gac ttc gac gag aag ctc aac Met Gly Asp Leu Leu Ser Ala Met Phe Asp Phe Ser Glu Lys Leu Asn 515 cc ctg gcg ctt acc gag gag gag ctg ggc ctc ttc acc gcg gtg gtg cc ttg gc gc gag acc cgc tcg gcg atg gag att cc gct tcg gtg gcg acc ttg gtg gcc atg gtg cc ctg gcg ctt acc gag gag gag ctg ggc ctc ttc acc gcg gtg gtg ctc ctg gcg ctt acc gac cgc tcg gcg atg gag att cc acc gcg gtg gtg cc ctg gcg ctt acc gag cgc ctg ggc atg gag att cc acc gcg gtg gtg cct gtc ctc gac gac cgc tcg gcg atg gag att cc gct tcg gtg gcg cac ct cag gag acc cgc tcg gcg atg gag att cc gcg gct ctt gtg ctg ag ctt gtc tct gaa gac cgc tcg gcg ctg gcg ctc tcg gtg ctg ag cac ctc cag gag acc ctc ctg ctg ctg ctg ctg gcd ctt gtg ctg ag cac ctc cag gag acc ctc ctg gtg ctc ctg gtg ctc ctg gtg ctc ctg acc ctc acc gcd ctc acc gcd ctc acc gcd ctc acc gcd ctc acc ctc acc gcd ctc acc gcd ctc acc gcd ctc ctg gtg ctc ctc gcd ctc gcd ctc gcd	Gly		_		_	Pro					Ala					Lys	1200
Ala Cys Pro Met Asn Met Tyr Pro His Gly Arg Ser Gly Arg Thr Val 420 cag gag atc tgg gag gat ttc tcc atg agc ttc acg ccc gct gtg cgg Gln Glu Ile Trp Glu Asp Phe Ser Met Ser Phe Thr Pro Ala Val Arg 445 gag gtg gta gag ttt gcc aaa cac atc ccg ggc ttc cgt gac ctt tct Glu Val Val Glu Phe Ala Lys His Ile Pro Gly Phe Arg Asp Leu Ser 450 cag cat gac caa gtc acc ctg ctt aag gct ggc acc ttt gag gtg ctg Gln His Asp Gln Val Thr Leu Leu Lys Ala Gly Thr Phe Glu Val Leu 465 atg gtg cgc ttt gct tcg ttg ttc aac gtg aag gac cag aca gtg atg Met Val Arg Phe Ala Ser Leu Phe Asn Val Lys Asp Gln Thr Val Met 488 ttc cta agc cgc acc acc tac agc ctg cag gag ctt ggt gcc atg ggc Phe Leu Ser Arg Thr Thr Tyr Ser Leu Gln Glu Leu Gly Ala Met Glu 500 atg gga gac ctg ctc agt gcc atg ttc gac ttc agc gag aag ctc aac Met Gly Asp Leu Leu Ser Ala Met Phe Asp Phe Ser Glu Lys Leu Asn 515 cc ctg gcg ctt acc gag gag gag ctg ggc ctc ttc acc gcg gtg gtg 51632 ctc ctg gcg ctt acc gag gag gag ctg ggc ctc ttc acc gcg gtg gtg 51632 ct gtc tct gca gac cgc tcg ggc atg gag aat tcc gct tcg gtg gag Ctt gtc tct gac gac cgc tcg ggc atg gag at tcc acc gct tcg gtg gag Ctt gtc tct gca gac cgc tcg ggc atg gag aat tcc gct tcg gtg gag Ctt gtc tct gca gac cgc tcg ggc atg gag aat tcc acc gct tcg gtg gag Ctt gtc tct gca gac cgc tcg ggc atg gag aat tcc gct tcg gtg gag Ctt gtc tct gca gac cgc tcg ggc atg gag aat tcc gct tcg gtg gag Ctt gtc tct gca gac cgc tcg ggc atg gag aat tcc gct tcg gtg gag Ctt gtc tct gca gac cgc tcg ggc atg gag aat tcc gct tcg gtg gag Cag ctc cag gaa acg ctg ctg cgg gct ctt cgg gtc ctg gtg Cag ctc cag gaa acg ctg ctg cgg gct ctc ctc gct tcg gtg ctc Cag ctc cag gaa acg ctc ctg cgg gct ctc ctc gct ctg gtg ctc Cag ctc cag gaa acc ctc cgc tcc gtg ctc gtg ctc Cag ctc cag gaa acc ctc ccg ctc cgc ctc ctc gtc ctc gtg ctc acc Cag ctc cag gaa acc ctc ccg ctc cgc tcc gtc ctc cag clc cag ccc ctc gtc ctc cag ccc ccc ccc ccc ccc ccc ccc ccc cc	-		-		Ser					Asn					Leu		1248
Gln Glu Ile Trp Glu Asp Phe Ser Met Ser Phe Thr Pro Ala Val Arg 445 gag gtg gta gag ttt gcc aaa cac atc ccg ggc ttc cgt gac ctt tct 1392 Glu Val Val Glu Phe Ala Lys His Ile Pro Gly Phe Arg Asp Leu Ser 450 cag cat gac caa gtc acc ctg ctt aag gct ggc acc ttt gag gtg ctg Gln His Asp Gln Val Thr Leu Leu Lys Ala Gly Thr Phe Glu Val Leu 470 atg gtg cgc ttt gct tcg ttg ttc aac gtg aag gac cag aca gtg atg 480 atg gtg cgc ttt gct tcg ttg ttc aac gtg aag gac cag aca gtg atg 480 Atg Phe Ala Ser Leu Phe Asn Val Lys Asp Gln Thr Val Met 490 ttc cta agc cgc acc acc tac agc ctg cag gag ctt ggt gcc atg ggc Phe Leu Ser Arg Thr Thr Tyr Ser Leu Gln Glu Leu Gly Ala Met Gly 505 atg gga gac ctg ctc agt gcc atg ttc gac ttc agc gag aag ctc aac l584 Met Gly Asp Leu Leu Ser Ala Met Phe Asp Phe Ser Glu Lys Leu Asn 515 tcc ctg gcg ctt acc gag gag gag ctg ggc ctc ttc acc gcg gtg gtg ctc ctg gcg ctt acc gag gag gag ctg ggc ctc ttc acc gcg gtg gtg ctc ttg tc tct gca gac cgc tcg ggc atg gas atg gac ctc gtc tcg gtg gag ctt gtc tct gca gac cgc tcg ggc atg gas atg ccc acc ctc gcg ctc ggc atg gag atg ctc ctc gtg ctc ctc gtg gag acc ctc ctc gcg gag acc ctc ctc gcg gag acc ctc ctc gtg gag acc ctc ctc gcc ctc ggc atg gacc acc acc ctc ctc gcc ctc ggc atg gag acc ctc ctc gcc ctc ct	_	_		Met		-			His					Arg			1296
Glu Val Val Glu Phe Ala Lys His Ile Pro Gly Phe Arg Asp Leu Ser 450 cag cat gac caa gtc acc ctg ctt aag gct ggc acc ttt gag gtg ctg Gln His Asp Gln Val Thr Leu Leu Lys Ala Gly Thr Phe Glu Val Leu 465 atg gtg cgc ttt gct tcg ttg ttc aac gtg aag gac cag aca gtg atg Met Val Arg Phe Ala Ser Leu Phe Asn Val Lys Asp Gln Thr Val Met 485 ttc cta agc cgc acc acc tac agc ctg cag gag ctt ggt gcc atg ggc Phe Leu Ser Arg Thr Thr Tyr Ser Leu Gln Glu Leu Gly Ala Met Gly 500 atg gga gac ctg ctc agt gcc atg ttc gac ttc gac ttg ggc atg gtg ttc cta agc gga ctg ctc agt gcc atg ttc gac ttc agc gag aag ctc aac Acc ggg gac ctg ctc agt gcc atg ttc gac ttc agc gag ctc atg ggc atg gga gac ctg ctc agt gcc atg ttc gac ttc agc gag aag ctc aac Acc ggg gag ctg gtg Leu Asn 510 atg gga gac ctg ctc agt gcc atg ttc gac ttc agc ggg gtg gtg tcc ctg gcg ctt acc gag gag gag ctg ggc ctc ttc acc gcg gtg gtg tcc ctg gcg ctt acc gag gag gag ctg ggc ctc ttc acc gcg gtg gtg Ser Leu Ala Leu Thr Glu Glu Glu Leu Gly Leu Phe Thr Ala Val Val 530 ctt gtc tct gca gac cgc tcg ggc atg gag aat tcc gct tcg gtg gag Leu Val Ser Ala Asp Arg Ser Gly Met Glu Asn Ser Ala Ser Val Glu 545 cag ctc cag gag acg ctg ctg ctg ggc ctt ctc ggg gct ctg gtg ctg aag Gln Leu Gln Glu Thr Leu Leu Arg Ala Leu Arg Ala Leu Val Leu Lys 565 aac cgg ccc ttg gag act tcc cgc ttc acc aag ctg ctg ctg aag ctg ctg ctg aag 1728	_		Ile					Ser					Pro				1344
Gin His Asp Gin Val Thr Leu Leu Lys Ala Gly Thr Phe Glu Val Leu 480 atg gtg cgc ttt gct tcg ttg ttc aac gtg aag gac cag aca gtg atg Met Val Arg Phe Ala Ser Leu Phe Asn Val Lys Asp Gin Thr Val Met 485 ttc cta agc cgc acc acc tac agc ctg cag gag ctt ggt gcc atg ggc Phe Leu Ser Arg Thr Thr Tyr Ser Leu Gin Glu Leu Gly Ala Met Gly 505 atg gga gac ctg ctc agt gcc atg ttc gac ttc agc gag aag ctc aac leac Ala Met Gly 505 tcc ctg gcg ctt acc gag gag gag ctg ggc ctc ttc acc gcg gtg gtg tcc ctg gcg ctt acc gag gag gag ctg ggc ctc ttc acc gcg gtg gtg ser Leu Ala Leu Thr Glu Glu Glu Leu Gly Leu Phe Thr Ala Val Val 530 ctt gtc tct gca gac ctg ctc ggc atg gag aat tcc gcg gtg gtg Leu Val Ser Ala Asp Arg Ser Gly Met Glu Asn Ser Ala Ser Val Glu 545 cag ctc cag gag acg ctg ctg cgg gct ctt cgg gct ctg gtg ctg aag Gln Leu Gln Glu Thr Leu Leu Arg Ala Leu Arg Ala Leu Arg Ala Leu Val Leu Lys 575 aac cgg ccc ttg gag act tcc cgc ttc acc gag ctg ctg ctc aac cgc tcg gag acc ctg ctc aac cgc ctc aacc cgc ctc aacc ctc aacc ccg ctc aacc ctc aacc ccg ctc cg gtg gtg 1728 1680		Val					Lys					Phe					1392
Met Val Arg Phe Ala Ser Leu Phe Asn Val Lys Asp Gln Thr Val Met 485 ttc cta agc cgc acc acc tac agc ctg cag gag ctt ggt gcc atg ggc Phe Leu Ser Arg Thr Thr Tyr Ser Leu Gln Glu Leu Gly Ala Met Gly 500 atg gga gac ctg ctc agt gcc atg ttc gac ttc agc gag aag ctc aac Phe Leu Ser Ala Met Phe Asp Phe Ser Glu Lys Leu Asn 515 tcc ctg gcg ctt acc gag gag gag ctg ggc ctc ttc acc gcg gtg gtg 1632 Ser Leu Ala Leu Thr Glu Glu Glu Leu Gly Leu Phe Thr Ala Val Val 530 ctt gtc tct gca gac cgc tcg ggc atg gag aat tcc gct tcg gtg gag 1680 Leu Val Ser Ala Asp Arg Ser Gly Met Glu Asn Ser Ala Ser Val Glu 545 cag ctc cag gag acg ctg ctg cgg gct ctt ctg gtg ctg aag Gln Leu Gln Glu Thr Leu Leu Arg Ala Leu Arg Ala Leu Val Leu Lys 575 aac cgg ccc ttg gag act tcc cgc ttc acc aag ctg ctg aag ctg ctg aag ctg ctg ctg aag ctg ctg ctg aag ctg ctg ctg aag ctg ctg ctg ctg ctg ctg ctg ctg ctg ct	Gln		_			Thr					Gly					Leu	1440
Phe Leu Ser Arg Thr Thr Tyr Ser Leu Gln Glu Leu Gly Ala Met Gly 500 atg gga gac ctg ctc agt gcc atg ttc gac ttc agc gag aag ctc aac Met Gly Asp Leu Leu Ser Ala Met Phe Asp Phe Ser Glu Lys Leu Asn 515 tcc ctg gcg ctt acc gag gag gag ctg ggc ctc ttc acc gcg gtg gtg 1632 Ser Leu Ala Leu Thr Glu Glu Glu Leu Gly Leu Phe Thr Ala Val Val 530 ctt gtc tct gca gac cgc tcg ggc atg gag aat tcc gct tcg gtg gag 1680 Leu Val Ser Ala Asp Arg Ser Gly Met Glu Asn Ser Ala Ser Val Glu 545 cag ctc cag gag acg ctg ctg cgg gct ctt cgg gct ctg gtg ctg aag Gln Leu Gln Glu Thr Leu Leu Arg Ala Leu Arg Ala Leu Val Leu Lys 575 aac cgg ccc ttg gag act tcc cgc ttc acc aag ctg ctg ctg aag ctg 1776	_		_		Ala					Val					Val		1488
Met Gly Asp Leu Leu Ser Ala Met Phe Asp Phe Ser Glu Lys Leu Asn 515				Arg					Leu					Āla			1536
Ser Leu Ala Leu Thr Glu Glu Glu Leu Gly Leu Phe Thr Ala Val Val 530 ctt gtc tct gca gac cgc tcg ggc atg gag aat tcc gct tcg gtg gag Leu Val Ser Ala Asp Arg Ser Gly Met Glu Asn Ser Ala Ser Val Glu 545 cag ctc cag gag acg ctg ctg cgg gct ctt cgg gct ctg gtg ctg aag Gln Leu Gln Glu Thr Leu Leu Arg Ala Leu Arg Ala Leu Val Leu Lys 565 aac cgg ccc ttg gag act tcc cgc ttc acc aag ctg ctg ctg cag ctg 1776	-		Asp					Met					Glu				1584
Leu Val Ser Ala Asp Arg Ser Gly Met Glu Asn Ser Ala Ser Val Glu 545 550 560 cag ctc cag gag acg ctg ctg cgg gct ctt cgg gct ctg gtg ctg aag 1728 Gln Leu Gln Glu Thr Leu Leu Arg Ala Leu Arg Ala Leu Val Leu Lys 565 570 575 aac cgg ccc ttg gag act tcc cgc ttc acc aag ctg ctg ctc aag ctg 1776		Leu					Glu					Phe					1632
Gln Leu Gln Glu Thr Leu Leu Arg Ala Leu Arg Ala Leu Val Leu Lys 565 570 575 aac cgg ccc ttg gag act tcc cgc ttc acc aag ctg ctc aag ctg 1776	Leu					Arg					Asn					Glu	1680
					Thr					Leu					Leu		1728
																	1776

ccg gac ctg cgg acc ctg aac aac atg cat tcc gag aag ctg ctg tcc Pro Asp Leu Arg Thr Leu Asn Asn Met His Ser Glu Lys Leu Leu Ser ttc cgg gtg gac gcc cag tga Phe Arg Val Asp Ala Gln <210> 4 <211> 614 <212> PRT <213> Homo sapiens <400> 4 Met Thr Thr Leu Asp Ser Asn Asn Thr Gly Gly Val Ile Thr Tyr Ile Gly Ser Ser Gly Ser Ser Pro Ser Arg Thr Ser Pro Glu Ser Leu Tyr Ser Asp Asn Ser Asn Gly Ser Phe Gln Ser Leu Thr Gln Gly Cys Pro Thr Tyr Phe Pro Pro Ser Pro Thr Gly Ser Leu Thr Gln Asp Pro Ala Arg Ser Phe Gly Ser Ile Pro Pro Ser Leu Ser Asp Asp Gly Ser Gly Ser Pro Pro Gly Ser Leu Gln Val Ala Met Glu Asp Ser Ser Arg Val Ser Pro Ser Lys Ser Thr Ser Asn Ile Thr Lys Leu Asn Gly Met Val Leu Leu Cys Lys Val Cys Gly Asp Val Ala Ser Gly Phe His Tyr Gly Val His Ala Cys Glu Gly Cys Lys Gly Phe Phe Arg Arg Ser Ile Gln Gln Asn Ile Gln Tyr Lys Arg Cys Leu Lys Asn Glu Asn Cys Ser Ile Val Arg Ile Asn Arg Asn Arg Cys Gln Gln Cys Arg Phe Lys Lys Cys Leu Ser Val Gly Met Ser Arg Asp Ala Val Arg Phe Gly Arg Ile Pro Lys Arg Glu Lys Gln Arg Met Leu Ala Glu Met Gln Ser Ala Met Asn Leu Ala Asn Asn Gln Leu Ser Ser Gln Cys Pro Leu Glu Thr Ser Pro Thr Gln His Pro Thr Pro Gly Pro Met Gly Pro Ser Pro Pro Pro Ala Pro Val Pro Ser Pro Leu Val Gly Phe Ser Gln Phe Pro Gln Gln Leu Thr Pro Pro Arg Ser Pro Ser Pro Glu Pro Thr Val Glu Asp Val Ile Ser Gln Val Ala Arg Ala His Arg Glu Ile Phe Thr Tyr Ala His

Asp Lys Leu Gly Ser Ser Pro Gly Asn Phe Asn Ala Asn His Ala Ser

Gly	Ser	Pro	Pro	Ala 325	Thr	Thr	Pro	His	Arg 330	Trp	Glu	Asn	Gln	Gly 335	Cys
Pro	Pro	Ala	Pro 340	Asn	Asp	Asn	Asn	Thr 345	Leu	Ala	Ala	Gln	Arg 350	His	Asn
		355		_		Arg	360					365			
Trp	Pro 370	Pro	Gly	Pro	Ala	His 375	His	Ser	Cys	His	Gln 380	Ser	Asn	Ser	Asn
Gly 385	His	Arg	Leu	Cys	Pro 390	Thr	His	Val	Tyr	Ala 395	Ala	Pro	Glu	Gly	Lys 400
Ala	Pro	Ala	Asn	Ser 405	Pro	Arg	Gln	Gly	Asn 410	Ser	Lys	Asn	Val	Leu 415	Leu
			420			Tyr		425					430		
Gln	Glu	Ile 435	Trp	Glu	Asp	Phe	Ser 440	Met	Ser	Phe	Thr	Pro 445	Ala	Val	Arg
	450					Lys 455					460		-		
G1n 465	His	Asp	Gln	Val	Thr 470	Leu	Leu	Lys	Ala	Gly 475	Thr	Phe	Glu	Val	Leu 480
		_		485		Leu			490	_	_			495	
			500			Tyr		505					510		
		515				Ala	520					525			
	530					Glu 535					540				
545					550	Ser				555					560
				565		Leu	_		570	_				575	_
	_		580			Ser	_	585		_			590	_	
		595				Asn	Asn 600	Met	His	Ser	Glu	Lys 605	Leu	Leu	Ser
Phe	Arg 610	Val	Asp	Ala	Gln										

.